



DEVAL L. PATRICK, GOVERNOR  
TIMOTHY P. MURRAY, LT. GOVERNOR  
JEFFREY B. MULLAN, SECRETARY & CEO  
LUISA PAIEWONSKY, ADMINISTRATOR



602543-09

December 4, 2009

ADDENDUM NO. 1

To Prospective Bidders and Others on:

**IPSWICH**  
**Bridge Replacement Br. No. I-01-007 (Steel)**  
**Route 1A (High Street) over the MBTA & B&M Railroads**

**BIDS TO BE OPENED AND READ:**      **TUESDAY, DECEMBER 15, 2009 at 2:00 P.M.**

Transmitting revisions to the Contract Documents as follows:

**CONTRACTORS' QUESTIONS:**

Attached one page.

**PART OF SHEET NO. 8 of 46 revised.**

The whole Sheet No. 8 of 46 showing these revisions will be issued later.

**SPECIAL PROVISIONS** revised pages A00801- 67 and 140.

**DETAIL SHEET** revised pages A00802- 210, 213, 214 and 215.

**BID PROPOSAL** revised pages B00420-242, 248, 249 and 256.

Please take note of the above, substitute the revised pages for the originals and attach Addendum No.1 before submitting your bid.

Very truly yours,

Frank Kucharski, P.E.  
Construction Contracts Engineer

HKB

cc: Matt Hopkinson, Project Manager

**IPSWICH**  
**Bridge Replacement Br. No. I-01-007 (Steel)**  
**Route 1A (High Street) over the MBTA & B&M Railroads**

**Responses to Contractor Questions**

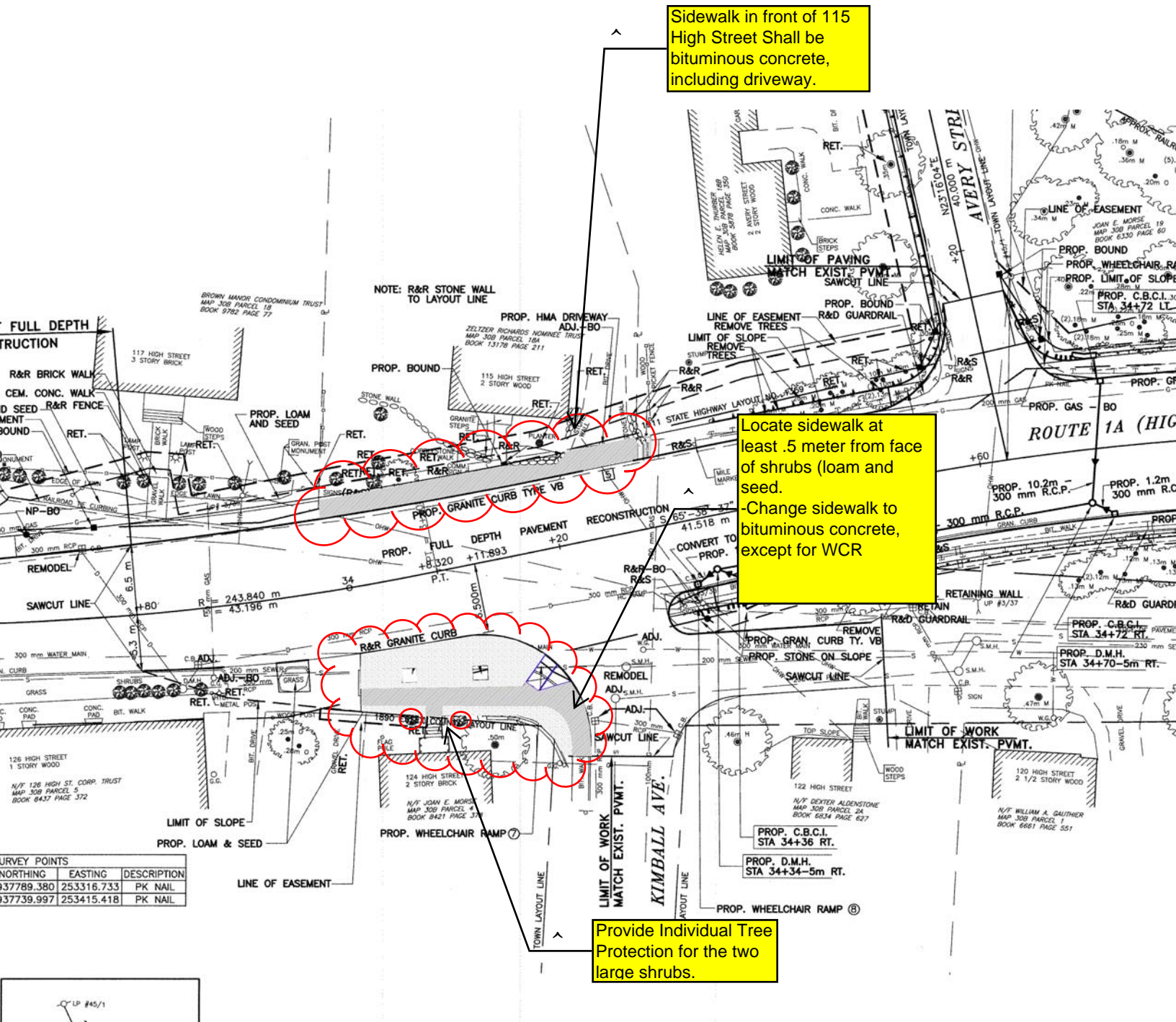
**ADDENDUM NO. 1, DECEMBER 4, 2009**

Question No. 1, dated December 1, 2009, from David Parson, L.B. Foster Company

Please advise as to what if any coating system is to be applied to the Temporary Pedestrian Bridge Structural Steel ie Columns and Beams.

Response No. 1:

No particular coating is required for the temporary structure. The Contractor shall maintain the temporary bridge at a safe condition until it is removed.



PART OF SHEET NO. 8 of 46 Revised

The whole Sheet No. 8 of 46 showing these revisions will be issued at a later date.

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^ **ADDENDUM NO. 1, DECEMBER 4, 2009**

**CONTRACTOR QUESTIONS**

Contractors are required to submit all questions to the Construction Contracts Engineer by 1:00 P.M. on the Thursday before the scheduled bid opening date. Any questions received after this will not be considered for review by MassHighway.

**EMAIL ADDRESS FOR QUESTIONS AND ADDENDUM ACKNOWLEDGEMENTS**

Contractors should email questions and addendum acknowledgements to the following email address [mhd-specifications@mhd.state.ma.us](mailto:mhd-specifications@mhd.state.ma.us). In the email title it is requested that the MHD project file number and municipality be included for identification purposes.

^ **ENGINEERING DIRECTIVES**

Contractors can access MassDOT, Highway Division Engineering Directives at:  
<http://www.mhd.state.ma.us/default.asp?pgid=content/engineering02&sid=about>

^ **BID BONDS**

All bid bonds submitted to the Cashier's Office should read (in part) "... are held and firmly bound unto The Massachusetts Department of Transportation."

**CONTACTS:**

MassDOT-Highway PROJECT MANAGER - Mr. Matthew Hopkinson, 617-973-8193  
DESIGNER - K&M Associates, 781-396-9747

**INSURANCE REQUIREMENTS**

The insurance requirements set forth in this section are in addition to the requirements of the Standard Specifications and supercede all other requirements .

Railroad Protective Liability Insurance and Protective Property Damage Liability Insurance shall be obtained in the amount of \$2,000,000. / \$6,000,000., on behalf of MBTA. See MBTA specifications enclosed.

**PRECONSTRUCTION CONFERENCE:**

Under Item No. 100.01 SCHEDULE OF OPERATIONS - FIXED PRICE \$100,000.00, the Baseline Construction Contract Schedule as "Resubmittal Not Required" (As-Planned Schedule) shall be presented at the Pre-Construction Conference. No work shall be started prior to Engineer's approval of the Baseline Construction Contract Schedule.

## VALUE ENGINEERING INCENTIVE

A. This Subsection defines the conditions and requirements which apply to Value Engineering Change Proposals (VECPs) which are initiated, developed and submitted by the Contractor under the Department's Construction Phase Value Engineering (VE) Program to change the Drawings, Specifications or other requirements of the Contract. The purpose of the VECP Program is to encourage the Contractor to submit proposed changes to the requirements specified in the Accelerated Bridge Program contract documents, based on the Contractor's experience and knowledge of alternative, cost-reducing and/or time saving, means, methods, materials and technologies.

Value Engineering is the systematic application of recognized techniques which identify the function of a product or service, establish a value for that function, and provides the necessary function reliability at the lowest practical lifecycle cost.

VECPs submitted under the Contract shall require a change to the Drawings, Specifications or other requirements of the Contract Documents. As defined in Subsection D below, the incentive to the Contractor provided under this Subsection is to share the net savings resulting from acceptance of a VECP on the basis of fifty (50) percent for the Contractor and fifty (50) percent for the Department. In order to be considered for acceptance under this Subsection, each VECP shall:

1. Be identified by the Contractor at the time for submittal to the Engineer as submitted pursuant to this Subsection;
2. Yield a net savings in the cost of the instant Contract, as defined below, in excess of \$100,000 One Hundred Thousand dollars;
3. Maintain the specified items' required functions such as service life, reliability, economy of operation, ease of maintenance, and necessary standardized features and appearance; and
4. Shall not require an unacceptable extension of Contract Times or Contract Milestones.

**ITEM 740. (continued)**

Mouse: .....Optical mouse with scroll  
Keyboard:.....Standard 104-key  
Printer: .....Color laserjet printer to be shared by all computers  
OS: .....Windows XP Professional SP3 with all current security updates (Later versions of Windows are not supported by MassHighway Applications.)  
Web Browser: .....Internet Explorer 6.0 with all current security updates (Later versions of Internet Explorer are not supported by MassHighway Applications.)  
Office: .....MS Office Professional with all current security updates  
Flash drives: .....3 - 8GB USB micro SD card readers, each with 2GB micro SD card

The digital camera shall meet the following minimum criteria or better:

Manufacturer:.....Olympus, Nikon, Canon or approved equal  
Resolution: .....5 Megapixel  
Optical Zoom: .....5X  
Memory:.....2GB micro SD card (included)  
USB Port: .....USB 2.0 with PC cable  
Screen: .....2-inch LCD with scratch-resistance and anti-reflectance  
Battery Power: .....2 sets of batteries with battery charger  
AC Power:.....AC adapter  
Carrying Case: .....Rain-proof with shoulder strap  
Internet access: High speed broadband via connection card or other approved method.

The Engineer's Field Office and the equipment included therein, including the computer system and camera shall remain the property of the Contractor at the completion of the project. The disks and card readers with cards shall become the property of the Department.



**^ ADDENDUM NO. 1, DECEMBER 4, 2009**

<b><u>ITEM 773.037</u></b>	<b><u>PINE – AUSTRIAN 1.73 – 2.44 METERS HEIGHT</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 774.038</u></b>	<b><u>SPRUCE – COLORADO GREEN 1.73 – 2.44 METERS HEIGHT</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 775.028</u></b>	<b><u>ELM – AMERICAN ‘PRINCETON’ 50-60 MM CAL</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 776.841</u></b>	<b><u>MAPLE – SUGAR – ‘GREEN MOUNTAIN’</u></b>	<b><u>EACH</u></b>
	<b><u>50-60 MILLIMETER CALIPER</u></b>	
<b><u>ITEM 777.036</u></b>	<b><u>OAK – NORTHERN RED 50-60 MILLIMETER CALIPER</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 777.241</u></b>	<b><u>OAK – SCARLET 50-60 MILLIMETER CALIPER</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 781.173</u></b>	<b><u>HACKBERRY TREE 50-60 MILLIMETER CALIPER</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 781.268</u></b>	<b><u>HAWTHORN – ‘WINTER KING’ 1.73 – 2.44 METERS HEIGHT</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 782.535</u></b>	<b><u>EASTERN REDBUD 1.73 – 2.44 METERS HEIGHT</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 783.509</u></b>	<b><u>SERVICEBERRY ‘AUTUMN BRILLIANCE’</u></b>	
	<b><u>40-50 MILLIMETER CALIPER</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 785.736</u></b>	<b><u>INKBERRY 610-760 MILLIMETERS</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 789.333</u></b>	<b><u>BAYBERRY SHRUB – NORTHERN 610-900 MILLIMETERS</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 790.633</u></b>	<b><u>DOGWOOD – REDOSIER 610-900 MILLIMETERS</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 791.016</u></b>	<b><u>VIBURNUM – BLACKHAW NO.3</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 791.066</u></b>	<b><u>EASTERN NINEBARK 610-760 MILLIMETERS</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 792.022</u></b>	<b><u>HYDRANGEA-OAKLEAF NO. 2</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 795.013</u></b>	<b><u>VIBURNUM – ARROWWOOD 900 MM – 1.22 METERS</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 795.033</u></b>	<b><u>VIBURNUM – DOUBLEFILE 900 MM – 1.22 METERS</u></b>	<b><u>EACH</u></b>
<b><u>ITEM 796.071</u></b>	<b><u>VIRGINIA CREEPER NO. 1</u></b>	<b><u>EACH</u></b>

- ^** The work under these items shall conform to the applicable requirements of Section 771, PLANTING TREES, SHRUBS AND GROUND COVER, of the Standard Specifications, except as amended and supplemented as indicated on the drawings and as specified below. The final location of the trees, shrubs and vines shall be as directed by MDOT Landscape Architect.

For the above items the Contractor shall provide and install plant material of genus, species, variety, size and quantities in locations as directed by the Engineer. The work of this section includes, but is not limited to, the following:

- A. Purchasing and transporting plant material to construction sites
- B. Installation of plant material
- C. Plant care during 60-day Maintenance Period and one-year Establishment Period
- D. Replacement of defective or dead plants at End of Maintenance Period
- E. Replacement of defective or dead plants at End of Establishment Period

The Landscape Contractor shall have five years continuous experience and expertise in management, handling and installation of ornamental plant material in large scale landscape construction projects. Site foreman shall have at least five years experience and shall be on-site during all times of plant installation.

DOCUMENT A00802

# DETAIL SHEETS



^ **ADDENDUM NO. 1, DECEMBER 4, 2009**

Earth Excavation_____ 4200_____	CM	Gravel Sub-base_____ 1850_____	CM
Class A Rock Excav._____	CM	Gravel for Bridge_____	CM
Ordinary Borrow_____	CM	Gravel for Sidewalks_____	CM
Embankment_____	CM	Gravel (Miscell.)_____	CM

**TRAVELED WAY AND SHOULDERS (FULL DEPTH CONSTRUCTION**

Surface Course: 90 mm Hot Mix Asphalt placed in 2 layers, 45 mm modified top course material over 45 mm binder course material.

Base Course: 90 mm Hot Mix Asphalt base course material placed in one layer.

Sub base Course: 100 mm Dense Graded Crushed Stone over 200 mm Gravel Borrow, Type B.

**SIDEWALKS**

Surface Course: 100 mm Cement Concrete.

Base Course: 200 mm Gravel Borrow, Type B.

**DRIVEWAYS**

Surface Course: 150 mm Cement Concrete or 60 mm Hot Mix Asphalt placed in 2 layers.

Base Course: 200 mm Gravel Borrow, Type B

^ **Item 102.51** **Individual Tree Protection**, Qty = 62 Each

**Item 103.** **Tree Removed (Dia. Under 600 mm)** **Each**

STA 34+41 LT	STA 36+03 RT
STA 34+42 LT	STA 36+04 LT
STA 34+46 LT	STA 36+12 LT(2)
STA 34+47 LT	STA 36+40 RT
STA 35+26 RT(2)	STA 36+49 RT
STA 35+34 RT	STA 36+51 RT
STA 35+38 RT	STA 36+60 RT
STA 35+42 RT	
STA 35+43 RT	
STA 35+58 LT	
STA 35+65 LT(2)	
STA 35+80 RT	
STA 35+90 RT	

**^ ADDENDUM NO. 1, DECEMBER 4, 2009**

<u>Item 220.7</u>	<u>Sanitary Structure Adjusted</u>	<u>Each</u>
	STA 34+22 RT STA 37+09 RT STA 10+39 RT Town Farm Rd	
<u>Item 220.8</u>	<u>Sanitary Structure Remodeled</u>	<u>Each</u>
	STA 34+24 RT	
<u>Item 221.</u>	<u>Frame and Cover</u>	<u>Each</u>
	STA 34+32 RT STA 34+34 RT STA 34+60 RT STA 36+94.7 LT & RT STA 36+56.4 RT STA 36+62 RT	STA 36+56.4 RT STA 36+78.3 RT STA 36+55.6 LT STA 10+19 Town Farm Rd STA 36+90 RT
<u>Item 222.</u>	<u>Frame and Grate</u>	<u>Each</u>
	STA 32+53 LT STA 36+57 LT	
<u>Item 222.1</u>	<u>Frame and Grate MHD Cascade Type</u>	<u>Each</u>
	STA 34+36 RT STA 34+62 LT & RT STA 36+20 LT STA 36+40 RT STA 36+94.7 LT & RT TA 37+04 LT & RT STA 36+62 RT	
<u>Item 358.</u>	<u>Gate Box Adjusted</u>	<u>Each</u>
	Kimball Ave.	
<u>Item 381.3.</u>	<u>Service Box Adjusted</u>	<u>Each</u>
	Contingency	

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^ **ADDENDUM NO. 1, DECEMBER 4, 2009**

^ <u>Item 509.</u>	<u>Granite Transition Curb for Wheelchair Ramps- Straight</u>	<u>Each</u>
	See Wheelchair Ramp details	
<u>Item 583.</u>	<u>Edging Removed and Reset</u>	<u>Each</u>
	STA 33+57 LT	
<u>Item 660.1.</u>	<u>Temporary Hand Rail</u>	<u>Each</u>
	For approach to Temporary Pedestrian Bridge	
<u>Item 670..</u>	<u>Fence Removed and Reset</u>	<u>Each</u>
	STA 33+75 to 33+86 LT STA 34+30 LT	
<u>Item 691.</u>	<u>Balanced Stone Wall Removed and Rebuilt</u>	<u>Meter</u>
	STA 34+17 to STA 34+22 LT. STA 34+30 LT	
^ <u>Item 701.</u>	<u>Cement Concrete Sidewalk</u> 1,288 SM	<u>Square Meter</u>
^ <u>Item 701.1</u>	<u>Cement Concrete Sidewalk at Driveways</u> 152 SM	<u>Square Meter</u>
^ <u>Item 702.</u>	<u>Hot Mix Asphalt Walk Surface</u> 25 MG	<u>Megagram</u>
^ <u>Item 703.</u>	<u>Hot Mix Asphalt Driveway</u> 50 MG	<u>Megagram</u>
<u>Item 706.1.</u>	<u>Brick Walk Removed and Relaid</u> STA 34+83 LT.	<u>Square Meter</u>

**^ ADDENDUM NO. 1, DECEMBER 4, 2009**

^	<u>Item 751.</u>	<u>Loam Borrow</u>	<u>Cubic Meter</u>
		For Slope Areas	
^	<u>Item 765.</u>	<u>Seeding</u>	<u>Square Meter</u>
		For Slope Areas	
^	<u>Item 767.8</u>	<u>Bales of Hay for Erosion Control</u>	<u>Each</u>
		As required	
^	<u>Item 832.1</u>	<u>Warning Regulatory and Route Marker- Alum. Panel (Type A)</u>	<u>Each</u>
		See Pavement Markings and Signs Plan	
	<u>Item 874.2</u>	<u>Traffic Sign Removed and Reset</u>	<u>Each</u>
		See Pavement Markings and Signs Plan	
	<u>Item 874.4</u>	<u>Traffic Sign Removed and Stacked</u>	<u>Each</u>
		See Pavement Markings and Signs Plan	

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BRIDGE REPLACEMENT, I-01-007, (STEEL) ROUTE 1A (HIGH STREET) OVER THE MBTA & B&M  
RAILROAD (ABP)

ITEM NUMBER	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
100.01	1	SCHEDULE OF OPERATIONS-FIXED PRICE \$100,000.00  AT One Hundred Thousand Dollars & No Cents LUMP SUM	\$100,000.00	\$100,000.00
100.9	1	PRE-CONSTN SURVEY & VIBRATION MONTORING OF HISTORIC HOUSES  AT LUMP SUM		
102.51	62	INDIVIDUAL TREE PROTECTION  AT EACH		
103.	23	TREE REMOVED - DIAMETER UNDER 600 MILLIMETERS  AT EACH		
104.	1	TREE REMOVED - DIAMETER 600 MILLIMETERS AND OVER  AT EACH		
112.01	1	DEMOLITION OF BUILDING OR STRUCTURE NO. 1  AT LUMP SUM		
114.1	1	DEMOLITION OF SUPERSTRUCTURE OF BRIDGE NO. I-01-007  AT LUMP SUM		
120.1	4,200	UNCLASSIFIED EXCAVATION  AT PER CUBIC METER		
127.1	240	REINFORCED CONCRETE EXCAVATION  AT PER CUBIC METER		
140.	1,555	BRIDGE EXCAVATION  AT PER CUBIC METER		

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BRIDGE REPLACEMENT, I-01-007,(STEEL)ROUTE 1A (HIGH STREET) OVER THE MBTA & B&M  
RAILROAD (ABP)

ITEM NUMBER	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
620.3	25	STEEL W BEAM HIGHWAY GUARD - CURVED (SINGLE FACED)  AT _____ PER METER		
627.1	4	STEEL W BEAM TERMINAL SECTION (SINGLE FACED)  AT _____ EACH		
627.3	2	STEEL THRIE BEAM TERMINAL SECTION (SINGLE FACED)  AT _____ EACH		
628.2	4	BRIDGE RAIL TO HIGHWAY GUARD RAIL TRANSITION  AT _____ EACH		
635.1	325	HIGHWAY GUARD REMOVED AND DISCARDED  AT _____ PER METER		
657.	550	TEMPORARY FENCE  AT _____ PER METER		
657.5	300	TEMPORARY FENCE REMOVED AND RESET  AT _____ PER METER		
660.1	40	TEMPORARY HAND RAIL  AT _____ PER METER		
698.3	2,950	GEOTEXTILE FABRIC FOR SEPARATION  AT _____ PER SQ. METER		
701.	1,288	CEMENT CONCRETE SIDEWALK  AT _____ PER SQ. METER		

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BRIDGE REPLACEMENT, I-01-007,(STEEL)ROUTE 1A (HIGH STREET) OVER THE MBTA & B&M  
RAILROAD (ABP)

ITEM NUMBER	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
701.1	152	CEMENT CONCRETE SIDEWALK AT DRIVEWAYS  AT _____ PER SQ. METER		
701.11	1	HISTORIC STONE WALL AND GARDEN PRESERVATION  AT _____ LUMP SUM		
701.2	115	CEMENT CONCRETE WHEELCHAIR RAMP  AT _____ PER SQ. METER		
702.	25	HOT MIX ASPHALT WALK SURFACE  AT _____ PER MEGAGRAM		
703.	50	HOT MIX ASPHALT DRIVEWAY  AT _____ PER MEGAGRAM		
706.1	10	BRICK WALK REMOVED AND RELAID  AT _____ PER SQ. METER		
710.4	14	BOUND - PLAIN GRANITE  AT _____ EACH		
740.	45	ENGINEERS FIELD OFFICE AND EQUIPMENT (TYPE A)  AT _____ PER MONTH		
748.	1	MOBILIZATION  AT _____ LUMP SUM		
751.	105	LOAM BORROW  AT _____ PER CUBIC METER		

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BRIDGE REPLACEMENT, I-01-007,(STEEL)ROUTE 1A (HIGH STREET) OVER THE MBTA & B&M  
RAILROAD (ABP)

ITEM NUMBER	QUANTITY	ITEM WITH UNIT BID PRICE WRITTEN IN WORDS	UNIT PRICE	AMOUNT
987.3	320	SPECIAL SLOPE PAVING UNDER BRIDGE - CEMENT CONCRETE  AT _____ PER SQ. METER		
993.21	1	TEMPORARY PEDESTRIAN BRIDGE  AT _____ LUMP SUM		
994.01	1	TEMPORARY PROTECTIVE SHIELDING BRIDGE NO. I-01-007  AT _____ LUMP SUM		
995.01	1	BRIDGE STRUCTURE, BRIDGE NO. I-01-007  AT _____ LUMP SUM		

^ Total Qty: 84,446

Total:

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